



UNIVERSITÄT LEIPZIG

13th Annual Conference of the

Leipzig School of Natural Sciences –
Building with Molecules and Nano-objects

Graduate School BuildMoNa

Monday, 23 March and Tuesday, 24 March 2020

Venue:

Arthur Hantzsch Lecture Hall, Faculty of Chemistry and Mineralogy, Johannisallee 29,
04103 Leipzig, Germany

Agenda

Monday, 23 March 2020

- 09:30 Prof. Dr. Evamarie Hey-Hawkins
Welcome address
- 09:35 Prof. Dr. Claudia Schnohr (chair: Oliver Lahr)
Universität Leipzig
Atomic-scale structure of complex semiconductors
- 10:35 *Coffee break, refreshments (room 014)*
- 11:00 Prof. Dr. Christian Hackenberger (chair: Tobias Fischer)
Humboldt Universität zu Berlin and Leibniz-Forschungsinstitut für
Molekulare Pharmakologie (FMP)
*The power of chemoselectivity: Functional protein-conjugates for intra-
and extracellular targeting*
- 12:00 Group photo shooting
- 12:15 *Lunch (room 014)*
- 13:30 Prof. Dr. Detlev Belder (chair: Florian Harth)
Universität Leipzig
Integrated chemical microlaboratories



- 14:30 *Coffee break, refreshments (room 014)*
- 15:00 Ceremony for BuildMoNa Awards 2020
- 15:30 Poster session
- 16:30 *Buffet (and continuation of poster session) (room 014; foyer)*
- 18:00 Prospective end

Tuesday, 24 March 2020

- 09:00 PI meeting
- 10:00 *Coffee, refreshments (room 014)*
- 10:15 Prof. Dr. Regine von Klitzing (chair: Alexander Fischer)
TU Darmstadt
Swelling behaviour and mechanical properties of multiresponsive polymer coatings
- 11:15 Prof. Dr. Tanja Gulder (chair: Ivana Predarska)
Universität Leipzig
Combining the best of both worlds: bioinspired methods for directed halogenations
- 12:15 *Lunch (room 014)*
- 13:15 Talks of Doctoral Candidates Session I (chair: Veronika Riedl)
1. Reike Clauss
Two heads are better than one: Heterobimetallic complexes as homogeneous catalysts
 2. Antonia Welk
Zinc magnesium oxynitride: Material design, carrier transport and device applications



3. Volker Eilrich
Versatile chemistry of phosphorus-rich compounds
4. Tanja Jawinski
Properties of $\text{In}_2\text{S}_3:\text{V}$ thin films epitaxially grown on p-Si for intermediate band solar cell applications
5. Oliver Herrfurth
Ring-structure formation of hot carriers in ZnO studied with time-resolved imaging ellipsometry

14:30 Coffee break, refreshments (room 014)

14:45 Talks of Doctoral Candidates Session II (chair: Lukas Trefflich)

6. Astrid Weidt
Relaxation reduces stress: Effects of low energy ion implantation on amorphous TiO_2 nanotube arrays
7. Patrick Irmisch
Modelling DNA-strand displacement reactions in the presence of base pair mismatches
8. Clemens Scheuner
Detection enhancement for nitrogen vacancy centres using 2D diamond cavities
9. Liridona Useini
Synthesis of carboranyl analogues of the non-steroidal anti-inflammatory drug mefenamic acid
10. Nicola Andreas Söker
Experimental study of an active Brownian swimmer exploring regions with inhomogeneous activity

16:00 Coffee break, refreshments (room 014)



- 16:15 Talks of Doctoral Candidates Session III (chair: Jan Dirks)
11. Zeno Fickenscher
Investigation of heterobimetallic complexes in homogeneous catalysis
 12. Tillman Stralka
Copper iodide thin films: Dynamic AFM studies of local electrical properties
 13. Anna Hassa
Growth window, solubility limit and material properties of x -($\text{Al}_x\text{Ga}_{1-x}$) $_2\text{O}_3$ PLD thin films
 14. Florian Scheffler
Strand displacement reactions inside closed DNA origami nanostructures
 15. Max Kneiß
Tin-assisted growth of orthorhombic ($\text{Al}_x\text{Ga}_{1-x}$) $_2\text{O}_3/\text{Ga}_2\text{O}_3$ quantum-well superlattice heterostructures by pulsed laser deposition
- 17:30 Jury meeting
- 17.30 *Coffee break, refreshments (room 014)*
- 18:00 Awards Ceremony for Doctoral Candidates' talks
- 18:15 Meeting of the Doctoral Candidates
- 18:45 End of conference